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: **23935** | Service: **DTV** | Call Sign: **WMUM-TV** | Channel: **9 (High VHF)** | File Number: **0000027593** | FRN: **0001844976** | Date Submitted: **03/18/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|---|---|---|---|---|
| **GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION**<br>Doing Business As: GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION | Adam Woodlief<br>260 14TH ST NW<br>ATLANTA, GA 30318<br>United States | +1 (404) 685-2410 | awoodlief@gpb.org | Government Entity |

## 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 |
|---|---|---|---|
| **Robert Gehman**<br>*ConsultingEngineer*<br>*Kessler and Gehman Associates, Inc.* | Robert Gehman<br>507 NW 60 Street<br>Suite D<br>Gainesville, FL 32607<br>United States | +1 (352) 332-3157 | bob@kesslerandgehman.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 | New transmitter and Main antenna using existing transmission line. Mapping, analysis, design of pre-EIA-222-G tower, and possible tower modifications. Interim antenna and line for use during Main antenna replacement and duration of assigned phase. |

## 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 | PTCD20P2 |
| | Year | 2008 |
| | Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power Capacity | 8 kW |

## Primary Transmitter

### New Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **New Transmitter** | Use | Primary (Main) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Manufacturer | |
| | Model | HPTV-PRLX-V11 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 15.9 kW |
| | Justification for New Transmitter | Manufacturer of existing transmitter advises that the existing transmitter cannot be re-tuned to the assigned channel. See Attachment. |

## 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 | 3 inches |

| | | |
|---|---|---|
| | Length | 100.0 feet |
| | Other Electrical Service | No |
| | Description | N/A |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other leashold improvement? | No |
| | Size | N/A |
| **Channel 14 Costs** | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

## Primary Transmitter

### Other Transmitter Cost Not Listed

| Name | Description |
|---|---|
| **Standby Exciter and Switch** | Standby Exciter with Automatic Change Over Switch |
| **Additional Interior RF System** | Interior RF System Existing Transmitter to Interim Transmission line |

## 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 | Side 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) | 28.0 kW |
| | | |

| | |
|---|---|
| Manufacturer | |
| Model | TLS-V8 |
| Year | 2008 |

## Primary Antenna

### New Antenna Costs

| Section | Question | Response |
|---|---|---|
| **New Antenna Description** | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | 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 | Horizontal |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 31.0 kW |
| | Manufacturer | |
| | Model | TBD |
| | Year | 2018 |

| | | |
|---|---|---|
| | Justification for New Antenna | The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel. |

**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? | No |
| | Broadband or Single Channel? | N/A |
| | Feed Line Size | N/A |
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for a high power antenna? | 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 | 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) | 28.0 kW |
| | Manufacturer | |
| | Model | TBD |
| | Year | 2018 |

| | | |
|---|---|---|
| | Justification for New Antenna | An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to lease if leasing is available at time of acquisition. |

**Interim Antenna**

### Other Antenna Costs

| Section | Question | Response |
|---|---|---|
| **Elbow Complex** | Do you require the separate purchase of the Elbow Complex? | No |
| | Broadband or Single Channel? | N/A |
| | Feed Line Size | N/A |
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for an antenna? | Yes |
| **Pattern Scatter Analysis** | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | Yes |
| **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 | ERI |
| | Type | Flexible Air |
| | Diameter | 3 inches |
| | Other Diameter | N/A |
| | Segment Length | N/A |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1120 feet per run |

## Primary Transmission Line

### Other Transmission Line Expenses Not Listed

| Name | Description |
|---|---|
| **Sweep** | Verify line performance on new channel |

## Interim Transmission Line

### New Transmission Line

| Section | Question | Response |
|---|---|---|
| **New Transmission Line Costs** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Flexible Air |
| | Diameter | 3 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 1000 feet per run |
| | Justification for New Transmission Line | An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase. |

## 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? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | Yes |
| | Is tower documented for structural analysis? | No |
| | Is tower compliant with Rev G? | No |
| **Existing Tower Structure Registration** | Do you have a tower registration number? | Yes |
| | ASR Number | 1018798 |
| **Coordinates (NAD83 ( North American Datum of 1983))** | Latitude (NAD83) | 32° 28' 12.2" N- |
| | Longitude (NAD83) | 083° 15' 18.0" W- |
| | Overall Structure Height | 1168.95 feet |
| | Support Structure Height | 1109.89 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 398.95 feet |

| | |
|---|---|
| Structure Type | GTOWER - Guyed Structure Used for Communication Purposes |
| Tower Owner | GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION |
| Date Constructed | 03/02/2016 |

### 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 |
|---|---|---|
| 43212 | WMAB-FM | FM |

### Other Types of Users

| Users |
|---|
| WMAB ICR |

**Primary Tower**

### Tower Modification Costs

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

**Primary Tower**

### Tower Rigging Costs

| Section | Question | Response |
|---|---|---|
| **Tower Rigging Costs** | Complex Tower | N/A |

| | | |
|---|---|---|
| **Helicopter Services Required** | Are helicopter services required? | No |

**Primary Tower**

### Other Tower Expenses Not Listed

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 | 60 |
| | Explanation | It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects. |
| **Outside RF consulting Engineering Services** | Perform engineering study for new channel assignment and antenna development | Yes |
| | Prepare engineering section of Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |

| | | |
|---|---|---|
| | Quantity | 1 |
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| **Attorney and Other Outside Consulting Services** | Prepare and file Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | No |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | No |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| **RF Field Engineering Services** | Comprehensive coverage verification via field study | No |
| | RF exposure measurements | No |
| | Additional Field Engineering Service | Yes |

| | |
|---|---|
| Number of Days | 15 |
| Justification | It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services. |

## Outside Professional Services Costs

### Other Professional Services Expenses Not Listed

| Name | Description |
|---|---|
| **Other Legal Services** | Legal services not already included in a pre-established OPS section. |
| **Other Engineering Services** | Engineering services not already included in a pre-established OPS section. |

## 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? | Yes |
| | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change? | Yes |
| | Does this relocation require MVPD Notification of a Channel Change? | Yes |

## Other Expenses

### Other Expenses Not Listed

| Name | Description |
| --- | --- |
| **System Design and Site Survey** | System Design and Site Survey |
| **Electrical Design** | Electrical Design |

## Cost Information

### Transmitters

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Primary Transmitter HPTV-PRLX-V11** | **$483,430.00** | **$479,980.00** | | **$314,480.00** | |
| Additional Interior RF System | ***$75,000.00*** | $75,000.00 | N/A | N/A | N/A |
| Standby Exciter and Switch | ***$25,000.00*** | $25,000.00 | N/A | N/A | N/A |
| 3" Rigid Conduit and Wiring (Cost per foot) | $5,200.00 | $4,900.00 | N/A | N/A | N/A |
| Transformer 3 phase /480v - 150 KVA | $25,550.00 | $24,300.00 | N/A | N/A | N/A |
| Switchgear - industrial 800 amp | $38,200.00 | $36,300.00 | N/A | N/A | N/A |
| High VHF - Liquid Cooled Solid State Transmitter 15.9 kW | ***$314,480.00*** | $314,480.00 | This transmitter is an Upgrade. See attached uploaded file "Comark S10458-1 v190911jgv1.pdf" | $314,480.00 | N/A |
| **Sub-total** | $483,430.00 | $479,980.00 | N/A | $314,480.00 | N/A |

| | | | | | |
|---|---|---|---|---|---|
| **Total for all systems** | $1,783,910.00 | $1,742,535.00 | N/A | $386,099.50 | N/A |

## Components

| Actual Information Description | File Name | |
|---|---|---|
| Additional Interior RF System | Information not provided. | |
| Standby Exciter and Switch | Information not provided. | |
| 3" Rigid Conduit and Wiring (Cost per foot) | Information not provided. | |
| Transformer 3 phase/480v - 150 KVA | Information not provided. | |
| Switchgear - industrial 800 amp | Information not provided. | |
| High VHF - Liquid Cooled Solid State Transmitter 15.9 kW | **Component Description:**<br>**Amount:** | Comark S10458-1 v190912jgv2<br>$314,480.00 |

## 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 TBD** | **$215,140.00** | **$213,400.00** | | **$0.00** | |
| 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 |
| High VHF - High Power Side Mount One Station horizontally polarized | ***$180,000.00*** | $180,000.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | N/A | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | $23,150.00 | $22,000.00 | N/A | N/A | N/A |
| **Primary Antenna TBD** | **$215,140.00** | **$213,400.00** | | **$0.00** | |

| | | | | | |
|---|---|---|---|---|---|
| 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 |
| Side mount brackets for high power antennas (if not included in antenna base cost) | $23,150.00 | $22,000.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | N/A | N/A |
| High VHF - High Power Side Mount One Station horizontally polarized | ***$180,000.00*** | $180,000.00 | N/A | N/A | N/A |
| **Sub-total** | $430,280.00 | $426,800.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $1,783,910.00 | $1,742,535.00 | N/A | $386,099.50 | N/A |

### Components

Information not provided.

## Cost Information

### Transmission Line

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Interim Transmission Line** | **$59,000.00** | **$56,000.00** | | **$0.00** | |
| Flexible Air Transmission Line - dielectric, 3" | $59,000.00 | $56,000.00 | N/A | N/A | N/A |
| **Primary Transmission Line** | **$6,400.00** | **$6,400.00** | | **$0.00** | |
| Sweep | ***$6,400.00*** | $6,400.00 | N/A | N/A | N/A |
| **Sub-total** | $65,400.00 | $62,400.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $1,783,910.00 | $1,742,535.00 | N/A | $386,099.50 | 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 GTOWER** | **$657,800.00** | **$627,700.00** | | **$27,700.00** | |
| Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study | $26,300.00 | $27,700.00 | See attached / uploaded PDF files titled "TEP 369159 v200305jgv1.pdf", "TEP 388694 v200305jgv1.pdf", "TEP 391347 v200305jgv1.pdf" and "TEP 391368 v200305jgv1.pdf" | $27,700.00 | N/A |
| Major tower reinforcement /modifications | $421,000.00 | $400,000.00 | N/A | N/A | N/A |
| Tall Tower (greater than 500') | $210,500.00 | $200,000.00 | N/A | N/A | N/A |
| **Sub-total** | $657,800.00 | $627,700.00 | N/A | $27,700.00 | N/A |
| **Total for all systems** | $1,783,910.00 | $1,742,535.00 | N/A | $386,099.50 | N/A |

### Components

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

| | | |
|---|---|---|
| Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study | **Component Description:**<br>**Amount:** | TEP 388694 v200305jgv1<br>$10,500.00 |
| | **Component Description:**<br>**Amount:** | TEP 391347 v200305jgv1<br>$3,500.00 |
| | **Component Description:**<br>**Amount:** | TEP 391368 v200305jgv1<br>$4,200.00 |
| | **Component Description:**<br>**Amount:** | TEP 369159 v200305jgv1<br>$9,500.00 |
| Major tower reinforcement /modifications | Information not provided. | |
| Tall Tower (greater than 500') | 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** | **$100,190.00** | **$99,395.00** | | **$25,659.50** | |
| Other Engineering Services | ***$20,000.00*** | $20,000.00 | Fewer Project Management tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced and a new OES category has been created and funded with the money removed from PM. | $11,550.00 | N/A |
| Other Legal Services | ***$10,000.00*** | $10,000.00 | N/A | $1,232.00 | N/A |
| Additional Field Engineering Service, 15 Days | ***$30,000.00*** | $30,000.00 | 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 - Prepare and File FCC Form 2100 (main), Construction Permit Application | $5,260.00 | $5,000.00 | N/A | $1,732.50 | 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 | $2,000.00 | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Perform engineering study for new channel assignment and antenna development | $7,360.00 | $7,000.00 | N/A | $3,500.00 | 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 | $4,145.00 | The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and ongoing Actual Cost invoice prep and submission by KGA. | $4,145.00 | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Project management of the transition | $9,480.00 | $9,000.00 | Fewer Project Management tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced and a new OES category has been created and funded with the money removed from PM. | $1,500.00 | N/A |
| **Sub-total** | $100,190.00 | $99,395.00 | N/A | $25,659.50 | N/A |
| **Total for all systems** | $1,783,910.00 | $1,742,535.00 | N/A | $386,099.50 | N/A |

## Components

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

| | |
|---|---|
| Other Engineering Services | **Component Description:** KGA 554-629 v190620pmv1<br>**Amount:** $2,525.00<br><br>**Component Description:** KGA 554-612 v190620pmv1<br>**Amount:** $700.00<br><br>**Component Description:** KGA 554-698 v200218jgv1<br>**Amount:** $2,075.00<br><br>**Component Description:** KGA 554-668 v200218jgv1<br>**Amount:** $1,275.00<br><br>**Component Description:** KGA 554-642 v190702pmv1<br>**Amount:** $1,450.00<br><br>**Component Description:** KGA 554-677 v200218jgv1<br>**Amount:** $1,225.00<br><br>**Component Description:** KGA 554-611 v190620pmv1<br>**Amount:** $800.00<br><br>**Component Description:** KGA 554-725 v200218jgv1<br>**Amount:** $1,500.00 |
| Other Legal Services | |

| | |
|---|---|
| **Component Description:** | WMUM amount. Refer to Jan-April GMP matter summary. Refer to letter and attachments uploaded from GPB 8.2.18 |
| **Amount:** | $38.50 |
| **Component Description:** | WMUM amount. Refer to GMP matter summary May 2018. Refer to letter and attachments uploaded from GPB 8.2.18 |
| **Amount:** | $154.00 |
| **Component Description:** | GMP 31513 v200218jgv1 |
| **Amount:** | $385.00 |
| **Component Description:** | GMP 31276 v200218jgv1 |
| **Amount:** | $77.00 |
| **Component Description:** | Repack Prep legal Invoices |
| **Amount:** | $77.00 |
| **Component Description:** | GMP 30379 v190702pmv1 |
| **Amount:** | $115.50 |

| | |
|---|---|
| | **Component Description:** WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice.<br>**Amount:** $115.50<br><br>**Component Description:** GMP 30912 v200218jgv1<br>**Amount:** $192.50<br><br>**Component Description:** WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice.<br>**Amount:** $38.50<br><br>**Component Description:** WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice.<br>**Amount:** $38.50 |
| Additional Field Engineering Service, 15 Days | 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 - Prepare and File FCC Form 2100 (main), Construction Permit Application | **Component Description:**<br><br><br><br><br><br><br><br>**Amount:** | WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18<br>$1,347.50 |
| | **Component Description:**<br><br><br><br><br><br><br><br>**Amount:** | WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18<br>$385.00 |
| Prepare request for Special Temporary Authorization | Information not provided. | |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. | |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | **Component Description:**<br><br><br><br><br><br>**Amount:** | Prepare engineering section of FCC Form 2100 (main) construction permit<br>$2,000.00 |

| | | |
|---|---|---|
| Perform engineering study for new channel assignment and antenna development | **Component Description:**<br><br>**Amount:** | Perform engineering study for new channel assignment<br>$3,500.00 |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. | |

| | | |
|---|---|---|
| Prepare and or review reimbursement form | **Component Description:** | KGA 554-707 v200218jgv1 |
| | **Amount:** | $450.00 |
| | **Component Description:** | KGA 554-623 v190620pmv1 |
| | **Amount:** | $145.00 |
| | **Component Description:** | KGA 554-610 v190620pmv1 |
| | **Amount:** | $275.00 |
| | **Component Description:** | KGA 554-629 v190620pmv1 |
| | **Amount:** | $50.00 |
| | **Component Description:** | KGA 554-682 v200218jgv1 |
| | **Amount:** | $675.00 |
| | **Component Description:** | KGA 554-648 v190702pmv1 |
| | **Amount:** | $50.00 |
| | **Component Description:** | Prepare and review reimbursement form |
| | **Amount:** | $2,500.00 |

| | | |
|---|---|---|
| Project management of the transition | **Component Description:** | KGA 554-598 v190620pmv1b |
| | **Amount:** | $150.00 |
| | **Component Description:** | Form 387 2Q18 |
| | **Amount:** | $150.00 |
| | **Component Description:** | KGA 554-662 v200218jgv1 |
| | **Amount:** | $150.00 |
| | **Component Description:** | KGA inv #554-554 Form 387 2018 Q3 UL20190426jgv1 |
| | **Amount:** | $150.00 |
| | **Component Description:** | Project management Bob Gehman |
| | **Amount:** | $225.00 |
| | **Component Description:** | Project management Bob Gehman |
| | **Amount:** | $225.00 |
| | **Component Description:** | Project management Bob Gehman |
| | **Amount:** | $300.00 |
| | **Component Description:** | Form 387 4Q18 |
| | **Amount:** | $150.00 |

## 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** | **$46,810.00** | **$46,260.00** | | **$18,260.00** | |
| Electrical Design | ***$2,960.00*** | $2,960.00 | See attached / uploaded PDF file titled "NBP Eng 18187 v200303jgv1.pdf" | $2,960.00 | N/A |
| MVPD Notification of Channel Change | ***$2,000.00*** | $2,000.00 | N/A | N/A | N/A |
| Develop and air announcement of upcoming channel change | ***$0.00*** | $0.00 | N/A | N/A | N/A |
| Equipment Delivery and Handling Charges | ***$5,000.00*** | $5,000.00 | 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 |
| DTV Medical Facility Notification | $11,550.00 | $11,000.00 | N/A | N/A | N/A |
| Equipment Storage | ***$5,000.00*** | $5,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| System Design and Site Survey | ***$15,300.00*** | $15,300.00 | N/A | $15,300.00 | N/A |
| **Sub-total** | $46,810.00 | $46,260.00 | N/A | $18,260.00 | N/A |
| **Total for all systems** | $1,783,910.00 | $1,742,535.00 | N/A | $386,099.50 | N/A |

## Components

| **Actual Information Description** | **File Name** | |
|---|---|---|
| Electrical Design | **Component Description:**<br>**Amount:** | NBP Eng 18187 v200318jgv2<br>$2,960.00 |
| 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) | Information not provided. | |
| DTV Medical Facility Notification | Information not provided. | |
| Equipment Storage | Information not provided. | |
| System Design and Site Survey | **Component Description:**<br>**Amount:** | Comark 12830 v190911jgv1<br>$15,300.00 |

## Cost Information

### Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|---|---|---|---|
| **Total for all systems** | $1,783,910.00 | $1,742,535.00 | $386,099.50 |

## 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. | **Jeffrey C Gehman**<br>*Engineering Associate*<br><br>03/18/2020 |

## Attachments