



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **43192** | Service: **DTV** | Call **WMAB-TV** | Channel:
ID: | Sign:
8 (High VHF) | File **0000026622**
Number:
FRN: **0001739002** | Date **07/09**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|---|--|-----------------------------|----------------------------------|----------------------|
| MISSISSIPPI AUTHORITY FOR EDUCATIONAL TV | Greg Wells 3825 RIDGEWOOD ROAD JACKSON, MS 39211 United States | +1 (601) 432- 6197 | Greg. Wells@mpbonline. org | Government Entity |
| Doing Business As: | | | | |
| MISSISSIPPI AUTHORITY FOR EDUCATIONAL TV | | | | |

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 <i>Kessler and Gehman Associates, Inc.</i> | Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 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 | Replace transmitter and antenna using existing line. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. |

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 | PLATINUM PTCD10P1 |
| | Year | 2008 |
| | Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power Capacity | 2.2 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? | No |
| | Manufacturer | |
| | Model | LPTV-5000-2000V3 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power capacity | 2 kW |
| | Justification for New Transmitter | The manufacturer of the existing transmitter advises that the 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) | No |
| | Transformer (480V) | Yes |
| | Power | 150 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? | 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

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

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 | Other |
| | 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 | Travelling Wave |
| | ERP: (Effective Radiated Power) | 8.0 kW |

| | |
|--------------|-----------------|
| Manufacturer | |
| Model | TW-7B10-R SM |
| 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) | 8.0 kW |
| | Manufacturer | |
| | Model | JSM-7/8 SHTO-R |
| | | |

| | |
|-------------------------------|---|
| Year | 2018 |
| Justification for New Antenna | The existing primary antenna is a single channel travelling wave 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? | |
| | 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) | 8.0 kW |
| | Manufacturer | |
| | Model | JSM-7/8 SHTO-R |
| | 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 | 1 5/8 inches |
| | Other Diameter | N/A |
| | Segment Length | N/A |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 935 feet per run |

Primary Transmission Line

Other Transmission Line Expenses Not Listed

| Name | Description |
|-------------|--|
| Sweep Tests | Sweep test to verify performance on the assigned channel |

Interim Transmission Line

New Transmission Line

| Section | Question | Response |
|-----------------------------|---|---|
| New Transmission Line Costs | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Lease New |
| | Type | Flexible Air |
| | Diameter | 1 5/8 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 835 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 | Other Transmission Line Expenses Not Listed |
|-------------------|---|
| Transmission Line | Information not provided. |

**Tower
Equipment
And
Rigging
Costs**

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

**Primary
Tower**

Existing Tower

| Section | Question | Response |
|--|---|--|
| Existing Tower Description | Type of change | Modify Existing |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Is this tower consider Complex? | No |
| | Is this tower currently shared with any other stations? | 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 | 1041039 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 33° 21' 14.0" N- |
| | Longitude (NAD83) | 089° 09' 00.0" W- |
| | Overall Structure Height | 1092.51 feet |
| | Support Structure Height | 1000.64 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 666.00 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| | | |
|--|------------------|--|
| | Tower Owner | MISSISSIPPI AUTHORITY FOR EDUCATIONAL TELEVISION |
| | Date Constructed | 01/01/1973 |

**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 microwave |

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 | 20 |
| | Explanation | Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 20 hrs (\$3,000 at \$150/hr), & a new OES category has been created & funded with the money removed from PM. |
| 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 | No |
| | Quantity | N/A |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | 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 | No |
| Additional Field Engineering Service | Yes |
| Number of Days | 18 |
| 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 | Other Legal Services related to the DTV Repack |
| Other Engineering Services | Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 20 hrs (\$3,000 at \$150 /hr), & a new OES category has been created & funded with the money removed from PM. |

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 |
| | 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 LPTV-5000-2000V3 | \$393,780.09 | \$350,737.09 | | \$170,934.89 | |
| Transformer 3 phase /480v - 150 KVA | \$25,550.00 | \$24,300.00 | N/A | N/A | N/A |
| High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW | \$152,500.00 | \$110,707.00 | See attached / uploaded PDF file titled "Comark 001 v200615jgv1. pdf" | \$84,137.32 | N/A |
| Additional Interior RF System | <i>\$75,000.00</i> | \$75,000.00 | N/A | N/A | N/A |
| Electrical | <i>\$115,730.09</i> | \$115,730.09 | See attached / uploaded PDF file titled "TSG TSG-MPB-2 v200511jgv1. pdf" | \$86,797.57 | N/A |
| Standby Exciter and Switch | <i>\$25,000.00</i> | \$25,000.00 | N/A | N/A | N/A |
| Sub-total | \$393,780.09 | \$350,737.09 | N/A | \$170,934.89 | N/A |
| Total for all systems | \$1,837,695.09 | \$1,753,929.09 | N/A | \$320,354.65 | N/A |

Components

| Actual Information | |
|--|---|
| Description | File Name |
| Transformer 3 phase/480v - 150 KVA | Information not provided. |
| High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW | Component Description: Comark 001 v200615jgv1 Amount: \$84,137.32 |
| Additional Interior RF System | Information not provided. |
| Electrical | Component Description: TSG TSG-MPB-2 v200604jgv2 Amount: \$86,797.57 |
| Standby Exciter and Switch | Information not provided. |

**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 JSM-7/8 SHTO-R | \$217,535.00 | \$215,795.00 | | \$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 | <i>\$182,395.00</i> | \$182,395.00 | See attached / uploaded PDF file titled "Comark 001 v200615jgv1. pdf" | N/A | N/A |

| | | | | | |
|--|-----------------------|-----------------------|--|---------------------|-----|
| Primary Antenna JSM-7/8 SHTO-R | \$217,535.00 | \$215,795.00 | | \$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 | \$182,395.00 | \$182,395.00 | See attached / uploaded PDF file titled "Comark 001 v200615jgv1.pdf" | N/A | N/A |
| Sub-total | \$435,070.00 | \$431,590.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$1,837,695.09 | \$1,753,929.09 | N/A | \$320,354.65 | 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 | \$27,555.00 | \$37,892.00 | | \$0.00 | |
| Flexible Air Transmission Line - dielectric, 1 5 /8" | \$27,555.00 | \$37,892.00 | See attached / uploaded PDF file titled "Comark 001 v200615jgv1. pdf" | N/A | N/A |
| Primary Transmission Line | \$6,400.00 | \$6,400.00 | | \$0.00 | |
| Sweep Tests | <i>\$6,400.00</i> | \$6,400.00 | N/A | N/A | N/A |
| Sub-total | \$33,955.00 | \$44,292.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$1,837,695.09 | \$1,753,929.09 | N/A | \$320,354.65 | 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 | \$657,800.00 | \$625,000.00 | | \$14,500.00 | |
| Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study | \$26,300.00 | \$25,000.00 | N/A | \$14,500.00 | 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 | \$625,000.00 | N/A | \$14,500.00 | N/A |
| Total for all systems | \$1,837,695.09 | \$1,753,929.09 | N/A | \$320,354.65 | 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 | <div> <div> Component Description: TEP CI-419681 v200602jgv1 </div> <div> Amount: \$12,000.00 </div> </div> <div> <div> Component Description: TEP 378950 v191104jgv1 </div> <div> Amount: \$2,500.00 </div> </div> |
| 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 | \$255,569.00 | \$249,272.00 | | \$104,788.56 | |
| Other Engineering Services | <i>\$90,969.00</i> | \$90,969.00 | See KGA Quote dated 3/4/19 attached to invoices 139-320, 139-323, 139-326 and 139-332 in this Other Engineering Services component. \$90,969 Estimate Cost also includes \$600 invoice 139-313. | \$80,618.88 | N/A |
| Other Legal Services | <i>\$10,000.00</i> | \$10,000.00 | N/A | \$3,036.50 | N/A |
| Additional Field Engineering Service, 18 Days | <i>\$36,000.00</i> | \$36,000.00 | N/A | \$9,280.68 | N/A |
| ASR modification (prepare FCC Form 854) | \$2,105.00 | \$2,000.00 | 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 |
| Prepare request for Special Temporary Authorization | \$2,050.00 | \$1,553.00 | See attached / uploaded PDF file titled "KGA 139-384 v200706jgv1.pdf" | \$1,553.00 | N/A |
| Comprehensive coverage verification via field study, if needed | \$84,200.00 | \$80,000.00 | N/A | N/A | N/A |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | \$2,105.00 | \$2,000.00 | N/A | N/A | N/A |
| 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 | \$49.50 | N/A |

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|--|------------|------------|---|------------|-----|
| Project management of the transition | \$3,160.00 | \$3,000.00 | Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 20 hrs (\$3,000 at \$150/hr), & a new OES category has been created & funded with the money removed from PM. | \$3,000.00 | N/A |
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | \$2,500.00 | 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 |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | N/A | \$2,750.00 | N/A |

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|--|----------------|----------------|-----|--------------|-----|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,000.00 | N/A | \$2,000.00 | N/A |
| Sub-total | \$255,569.00 | \$249,272.00 | N/A | \$104,788.56 | N/A |
| Total for all systems | \$1,837,695.09 | \$1,753,929.09 | N/A | \$320,354.65 | N/A |

Components

| Actual Information | |
|----------------------------|---|
| Description | File Name |
| Other Engineering Services | |
| | Component Description: KGA 139-381 v200608jgv1 Amount: \$5,704.92 |
| | Component Description: KGA 139-332 v191009jgv1 Amount: \$5,704.92 |
| | Component Description: KGA 139-378 v200506jgv1 Amount: \$5,704.92 |
| | Component Description: KGA 139-350 v200207jgv1 Amount: \$5,704.92 |
| | Component Description: KGA 139-323 v190909jgv1 Amount: \$5,704.92 |

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| Component Description: | KGA 139-337 v191112jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-326 v190909jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-339 v191210jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-320 v190909jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-316 v190625jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-355 v200207jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-385 v200709jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-366 v200408jgv1 |
| Amount: | \$5,704.92 |

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| Component Description: | KGA 139-363 v200320jgv1 |
| Amount: | \$5,704.92 |

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|----------------------|-------------------------------|---|
| | Component Description: | KGA 139-313 v190605pmv1 |
| | Amount: | \$600.00 |
| | Component Description: | KGA 139-308 v200128jgv1 |
| | Amount: | \$150.00 |
| <hr/> | | |
| Other Legal Services | Component Description: | GMP 32683 v200605jgv1 |
| | Amount: | \$1,010.00 |
| | Component Description: | GSB inv #662020 DTV Repack legal services |
| | Amount: | UL20180914jgv2 \$690.00 |
| | Component Description: | GSB 670598 v190516pmv1 |
| | Amount: | \$120.00 |
| | Component Description: | GSB 664826 v190516pmv1 |
| | Amount: | \$150.00 |
| | Component Description: | GMP 31015 v190926jgv2 |
| | Amount: | \$35.00 |
| | Component Description: | GMP 32517 v200506jgv1 |
| | Amount: | \$101.00 |

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| Component Description: | GMP 31983 v200219jgv1 |
| Amount: | \$140.00 |

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| Component Description: | GSB 710996 v190605pmv1 |
| Amount: | \$46.50 |

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| Component Description: | GSB 710370 v190605pmv1 |
| Amount: | \$46.50 |

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| Component Description: | GMP 31399 v191114jgv1 |
| Amount: | \$85.50 |

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| Component Description: | GMP 32343 v200408jgv1 |
| Amount: | \$39.00 |

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| Component Description: | GMP 31785 v200112jgv1 |
| Amount: | \$252.50 |

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| Component Description: | WMAB GSB inv #670598 DTV Repack legal services UL20180823jgv1 |
| Amount: | \$120.00 |

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| Component Description: | GSB 679880 v190516pmv1 |
| Amount: | \$120.00 |

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| Component Description: | WMAB GSB inv #679880 DTV Repack legal services UL20180823jgv1 |
| Amount: | \$120.00 |

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| Component Description: | GSB 667584 v190516pmv1 |
| Amount: | \$150.00 |

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| Component Description: | WMAB GSB inv #664826 DTV Repack legal services UL20180823jgv1 |
| Amount: | \$150.00 |

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| Component Description: | WMAB GSB inv #667584 DTV Repack legal services UL20180823jgv1 |
| Amount: | \$150.00 |

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| Component Description: | GMP 31599 v191211jgv1 |
| Amount: | \$303.00 |

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|--|---|---|
| Additional Field Engineering Service, 18 Days | Component Description: Amount: | Inv: WMAB FCC audit attendance by KGA UL20180405 \$4,875.00 |
| | Component Description: Amount: | Inv 139-292 WMAB FCC audit attendance by KGA UL20180716jgv2 \$4,875.00 |
| | Component Description: Amount: | KGA inv #139-285 On site survey split evenly between WMAB WMAE WMAW UL20180814jgv1 \$4,405.68 |
| ASR modification (prepare FCC Form 854) | Information not provided. | |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. | |
| Prepare request for Special Temporary Authorization | Component Description: Amount: | KGA 139-384 v200706jgv1 \$1,553.00 |
| 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. | |

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| 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: Amount: | GSB inv #662020 DTV Repack legal services CP App UL20180914jgv2 \$49.50 |
| Project management of the transition | Component Description: Amount: | KGA 193-304 v190716jgv1 \$300.00 |
| | Component Description: Amount: | KGA 139-334 v191011jgv1 \$300.00 |
| | Component Description: Amount: | KGA 139-360 v200207jgv1 \$300.00 |
| | Component Description: Amount: | KGA 139-376 v200430jgv1 \$150.00 |
| | Component Description: Amount: | KGA 139-302 v190703jgv1 \$300.00 |
| | Component Description: Amount: | KGA 139-317 v190715jgv1 \$300.00 |

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|---|-------------------------------|---|
| | Component Description: | KGA 139-299 v200128jgv1 |
| | Amount: | \$150.00 |
| | Component Description: | WMAB KGA inv #139-286 2017Q3 387 UL20180810jgv1 |
| | Amount: | \$300.00 |
| | Component Description: | KGA 139-371 v200415jgv1 |
| | Amount: | \$300.00 |
| | Component Description: | KGA 139-305 v190716jgv1 |
| | Amount: | \$300.00 |
| | Component Description: | WMAB KGA inv #139-289 2017Q4 387 UL20180809jgv1 |
| | Amount: | \$150.00 |
| | Component Description: | WMAB KGA inv #139-295 2018Q1 387 UL20180810jgv1 |
| | Amount: | \$150.00 |
| Prepare and or review reimbursement form | Component Description: | WMAB KGA inv #139-284 Prepare and or review 399 UL20180813jgv1 |
| | Amount: | \$2,500.00 |

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|--|---|--|
| 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: Amount: | WMAB KGA inv #139-281 New channel assignment UL20180809jgv1 \$2,750.00 |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Component Description: Amount: | WMAB KGA inv #139-281 CP App UL20180809jgv1 \$2,000.00 |

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 | \$61,521.00 | \$53,038.00 | | \$30,131.20 | |
| Equipment Delivery and Handling Charges | <i>\$22,153.00</i> | \$22,153.00 | N/A | \$2,235.35 | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$19,883.00</i> | \$19,883.00 | See attached / uploaded PDF file titled "Comark 001 v200615jgv1.pdf" | \$18,888.85 | N/A |
| Develop and air announcement of upcoming channel change | <i>\$0.00</i> | \$0.00 | N/A | N/A | N/A |
| Equipment Storage | <i>\$5,000.00</i> | \$5,000.00 | N/A | \$3,005.00 | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$3,067.00 | N/A | \$3,067.00 | N/A |
| MVPD Notification of Channel Change | <i>\$2,935.00</i> | \$2,935.00 | N/A | \$2,935.00 | N/A |
| Sub-total | \$61,521.00 | \$53,038.00 | N/A | \$30,131.20 | N/A |
| Total for all systems | \$1,837,695.09 | \$1,753,929.09 | N/A | \$320,354.65 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Equipment Delivery and Handling Charges | <p>Component Description: Comark 001 v200615jgv1</p> <p>Amount: \$2,235.35</p> |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <p>Component Description: Comark 001 v200615jgv1</p> <p>Amount: \$18,888.85</p> |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Storage | <p>Component Description: A and M 45713 v200601jgv1</p> <p>Amount: \$3,005.00</p> |
| DTV Medical Facility Notification | <p>Component Description: KGA 139-374 v200420jgv1</p> <p>Amount: \$3,067.00</p> |
| MVPD Notification of Channel Change | <p>Component Description: KGA 139-382 v200623jgv1</p> <p>Amount: \$1,174.00</p> <p>Component Description: KGA 139-375 v200420jgv1</p> <p>Amount: \$1,761.00</p> |

| | | | |
|-------------------------|------------------------------|------------------------------------|-----------------------|
| Cost Information | Grand Total | | |
| | | Predetermined Cost Estimate | Estimated Cost |
| | | | Actual Cost |
| | Total for all systems | \$1,837,695.09 | \$1,753,929.09 |
| | | | \$320,354.65 |

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|-----------------------------|--|-----------------|
| Reimbursement Status | Question | Response |
| | The facility has ceased operating on its pre-auction channel. | Yes |
| | 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>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>07/09/2020</p> |

| Certification | Section | Question | Response |
|---------------|--|--|----------|
| | Submission of Actual Cost Documentation Statements | 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). | |
| | | <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.

| | |
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| <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>Jeffrey C Gehman <i>Engineering Associate</i></p> <p>07/09/2020</p> |

Attachments