



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **34174** | Service: **DTV** | Call **WKMU** | Channel: **17 (UHF)**
ID: | Sign:
File **0000026878**
Number:
FRN: **0001790583** | Date **06/30**
Submitted: **/2021**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|---|-----------------------------|----------------------|----------------------|
| KENTUCKY AUTHORITY FOR EDUCATIONAL TV | 600 COOPER DR LEXINGTON, KY 40502 United States | +1 (859) 258- 7000 | SHOPKINS@KET. 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 |
|---|---|-----------------------|------------------------------|
| Greg Best <i>Greg Best Consulting, Inc.</i> | Greg Best 16100 Outlook Avenue Stilwell, KS 66085 United States | +1 (816) 792- 2913 | gbconsulting54@gmail. 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 | Please see attached repack plan exhibit. |

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 | DHD20P1 |
| | Year | 2001 |
| | Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power Capacity | 5 kW |

**Primary
Transmitter**

New Transmitter Costs

| Section | Question | Response |
|------------------------|---|--|
| New Transmitter | Use | Primary (Main) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Manufacturer | |
| | Model | Maxiva UAXTE-8 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power capacity | 5 kW |
| | Justification for New Transmitter | Pre-auction transmitter no longer supported by supplier; not re-tunable. |

**Primary
Transmitter**

Other Transmitter Costs

| Section | Question | Response |
|---------------------------|---------------------------------------|-----------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | Yes |
| | Switchgear (industrial 800 amp) | Yes |
| | Transformer (480V) | No |
| | Power | N/A |
| | Rigid Conduit and Wiring | Yes |
| | Size | 3 inches |
| | Length | 50.0 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 leasehold improvement? | No |
| | Size | N/A |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

**Primary
Transmitter**

Other Transmitter Cost Not Listed

Information not provided.

Antennas

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

**Primary
Antenna**

Existing Antenna Information

| Section | Question | Response |
|---|--|--------------------|
| Existing Antenna Description | Type of change | Purchase New |
| | Antenna Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing antenna shared with another station or stations? | No |
| | Is the existing antenna directional? | Yes |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | No |
| Existing Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | 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) | 56.9 kW |

| | |
|--------------|-----------------|
| Manufacturer | |
| Model | TLP-16B (36) |
| Year | 2001 |

**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) | 32.7 kW |
| Manufacturer | | |

| | |
|-------------------------------|---|
| Model | ATW-17H3-ETO-17H |
| Year | 2019 |
| Justification for New Antenna | Primary antenna is not broadband or able to be tuned to a new channel. New top mount reduces overall repack cost. Please see Repack Plan Exhibit for details. |

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.

**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 | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing transmission line shared with another station or stations? | No |
| | Is Transmission Line in operating condition? | Yes |
| Existing Transmission Line Manufacturer and Type | Manufacturer | |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | Broadband |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 622 feet per run |

**Primary
Transmission
Line** **New Transmission Line**

| Section | Question | Response |
|------------------------------------|---|--|
| New Transmission Line Costs | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | Broadband |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 20 feet per run |
| | Justification for New Transmission Line | Short run of new line to cover distance from current side-mount elevation to new top-mount location. |

**Primary
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? | No |
| | Is tower compliant with Rev G? | No |
| Existing Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1044036 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 36° 41' 34.0" N- |
| | Longitude (NAD83) | 088° 32' 11.0" W- |
| | Overall Structure Height | 654.19 feet |
| | Support Structure Height | 599.40 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 528.86 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| | |
|------------------|---|
| Tower Owner | KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA = MKMU |
| Date Constructed | 01/01/1968 |

**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: | Minor 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

| Name | Description |
|-------------------|---|
| Load Study | Structural engineering tower load study is required to design tower reinforcements and rigging. |

Outside Professional Services Costs

| Section | Question | Response |
|---|--|--|
| Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 80 |
| | Explanation | KET Staff require outside services to manage the upgrades. |
| Outside RF consulting Engineering Services | Perform engineering study for new channel assignment and antenna development | Yes |
| | Prepare engineering section of Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | No |
| | Quantity | N/A |
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| Attorney and Other Outside Consulting 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 | No |
| RF Field Engineering Services | Comprehensive coverage verification via field study | No |
| | RF exposure measurements | No |
| | Additional Field Engineering Service | No |
| | Number of Days | N/A |
| | Justification | N/A |

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

| Name | Description |
|---------------------------------|---------------------------------|
| Progress and Transition Reports | progress and transition reports |

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? | No |
| | 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 |
|-----------------------|---|
| Internal Labor | FCC reimbursement clerk hired for repack reimbursement ONLY |

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 Maxiva UAXTE-8 | \$291,700.00 | \$277,450.00 | | \$139,760.26 | |
| Switchgear - industrial 800 amp | \$38,200.00 | \$36,300.00 | N/A | N/A | N/A |
| UHF - Air Cooled Solid State Transmitter 4 - 6 kW | \$236,500.00 | \$225,000.00 | N/A | \$136,948.26 | N/A |
| Service entrance 3 phase/800 amp/208 volt | \$14,400.00 | \$13,700.00 | N/A | \$2,812.00 | N/A |
| 3" Rigid Conduit and Wiring (Cost per foot) | \$2,600.00 | \$2,450.00 | N/A | N/A | N/A |
| Sub-total | \$291,700.00 | \$277,450.00 | N/A | \$139,760.26 | N/A |
| Total for all systems | \$1,320,920.00 | \$1,327,906.19 | N/A | \$829,897.00 | N/A |

Components

| Actual Information | |
|---------------------------------|---------------------------|
| Description | File Name |
| Switchgear - industrial 800 amp | Information not provided. |

UHF - Air Cooled Solid State
Transmitter 4 - 6 kW

Component Description: TAX for transmitter, rf system, electrical system, installation & proof, freight

Amount: \$7,490.44

Component Description: transmitter, rf system, electrical system, installation & proof, freight

Amount: \$127,153.25

Component Description: training, final testing

Amount: \$1,941.69

Component Description: eComm admin and support, distribution services at time of bidding -- GatesAir (RFP-48-19)

Amount: \$362.88

Service entrance 3 phase
/800 amp/208 volt

Component Description: KET transmitter building electrical upgrade

Amount: \$25.00

Component Description: KET transmitter building electrical upgrade

Amount: \$60.00

Component Description: KET transmitter
building electrical
upgrade
Amount: \$25.00

Component Description: KET transmitter
building electrical
upgrade
Amount: \$730.00

Component Description: KET Transmitter
building electrical
upgrade
Amount: \$68.50

Component Description: KET transmitter
building electrical
upgrade
Amount: \$130.00

Component Description: KET transmitter
building electrical
upgrade
Amount: \$20.00

Component Description: ecomm admin
and support,
distribution
services at time of
bidding -- State
Electric (RFP-255-
19)
Amount: \$150.00

Component Description: KET transmitter
building electrical
upgrade
Amount: \$60.00

| | |
|--|---|
| | <p>Component Description: KET Transmitter building electrical upgrade</p> <p>Amount: \$120.00</p> |
| | <p>Component Description: KET Transmitter building electrical upgrade</p> <p>Amount: \$350.00</p> |
| | <p>Component Description: KET transmitter building electrical upgrade</p> <p>Amount: \$256.00</p> |
| | <p>Component Description: KET Transmitter building electrical upgrade</p> <p>Amount: \$672.50</p> |
| | <p>Component Description: KET transmitter building electrical upgrade</p> <p>Amount: \$120.00</p> |
| | <p>Component Description: KET transmitter building electrical upgrade</p> <p>Amount: \$25.00</p> |
| <p>3" Rigid Conduit and Wiring (Cost per foot)</p> | <p>Information not provided.</p> |

Cost Information

Antennas

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|---------------------|--|---------------------|--|
| Primary Antenna ATW-17H3-ETO-17H | \$555,530.00 | \$312,693.75 | | \$153,733.75 | |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | \$12,300.00 | \$11,700.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$18,750.00 | Transition requires two sweeps of transmission equipment. Please see attached Repack Plan Exhibit for details. | \$18,750.00 | Greg Best submitting 399 revisions to explain difference in costs - KB 6/16/19 |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00 | \$281,500.00 | N/A | \$134,240.00 | N/A |

| | | | | | |
|---|----------------|----------------|---|--------------|-----|
| UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized | \$247,000.00 | \$743.75 | ***System Notice: Estimate adjusted and locked because line has been superseded. *** | \$743.75 | N/A |
| Sub-total | \$555,530.00 | \$312,693.75 | N/A | \$153,733.75 | N/A |
| Total for all systems | \$1,320,920.00 | \$1,327,906.19 | N/A | \$829,897.00 | N/A |

Components

| Actual Information | |
|--|---|
| Description | File Name |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | Information not provided. |
| Sweep test of existing antenna | Component Description: system sweep (5%) Amount: \$937.50 |
| | Component Description: system sweep (35%) Amount: \$6,562.50 |
| | Component Description: system sweep (50%) Amount: \$9,375.00 |
| | Component Description: sweep test 10% Amount: \$1,875.00 |

| | |
|---|--|
| <p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p> | <p>Component Description: antenna (less vpol) and replacement lighting (5%)</p> <p>Amount: \$6,712.00</p> |
| <p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p> | <p>Component Description: antenna (less vertical polarization component) and replacement lighting (50%)</p> <p>Amount: \$67,120.00</p> |
| <p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p> | <p>Component Description: antenna (less vpol) and replacement lighting - 10%</p> <p>Amount: \$13,424.00</p> |
| <p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p> | <p>Component Description: antenna (less vertical polarization component) and replacement lighting (35%)</p> <p>Amount: \$46,984.00</p> |
| <p>UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized</p> | <p>Component Description: Antenna and Line Spec</p> <p>Amount: \$437.50</p> |
| <p>UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized</p> | <p>Component Description: Antenna gain and TPO evaluation and revision of specifications</p> <p>Amount: \$306.25</p> |

Cost Information

Transmission Line

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|-----------------------|---|---------------------|--|
| Primary Transmission Line | \$4,640.00 | \$36,412.44 | | \$36,412.44 | |
| Rigid Transmission Line - copper, 6 1/8" broadband | \$4,640.00 | \$36,412.44 | The transmission line required changes to the original proposed system. See transmission line cover letter. | \$36,412.44 | Greg Best submitting 399 revision to explain difference in costs. - KB 6/16/19 |
| Sub-total | \$4,640.00 | \$36,412.44 | N/A | \$36,412.44 | N/A |
| Total for all systems | \$1,320,920.00 | \$1,327,906.19 | N/A | \$829,897.00 | N/A |

Components

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

Rigid Transmission Line -
copper, 6 1/8" broadband

Component Description: transmission line
10%
Amount: \$3,641.24

Component Description: transmission line
system (35%)
Amount: \$12,744.36

Component Description: transmission line
(5%)
Amount: \$1,820.62

Component Description: transmission line
system (50%)
Amount: \$18,206.22

Component Description: transmission line
(50%)
Amount: \$18,206.22

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 | \$406,800.00 | \$647,600.00 | | \$487,657.10 | |
| Tall Tower (greater than 500') | \$210,500.00 | \$365,000.00 | KET obtained quotation of realistic scope of tower rigging work from reputable supplier. Please see attached Tower Work exhibit. | \$236,972.73 | N/A |
| Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study | \$26,300.00 | \$25,600.00 | N/A | \$12,500.00 | N/A |
| Load Study | <i>\$12,000.00</i> | \$12,000.00 | Structural engineering tower load study is required to design tower reinforcements and rigging. | \$0.00 | N/A |

| | | | | | |
|--|----------------|----------------|---|--------------|-----|
| Minor tower reinforcement /modifications | \$158,000.00 | \$245,000.00 | WKMU tower required more extensive modifications to meet Revision G standards than was initially anticipated. | \$238,184.37 | N/A |
| Sub-total | \$406,800.00 | \$647,600.00 | N/A | \$487,657.10 | N/A |
| Total for all systems | \$1,320,920.00 | \$1,327,906.19 | N/A | \$829,897.00 | N/A |

Components

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

Tall Tower (greater than 500')

Component Description: installation services 10%
Amount: \$23,543.26

Component Description: installation services (50%)
Amount: \$117,716.28

Component Description: installation services (35%)
Amount: \$82,401.39

Component Description: installation services (5%)
Amount: \$11,771.63

Component Description: eComm administration and support, and distribution services at the time of bidding - Electronics Research Inc contract
Amount: \$1,540.17

| | | | | | | | | | |
|--|---|---|--|---|-------------------------------------|---|---|---|--|
| <p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p> | <table> <tr> <td data-bbox="707 103 1145 248"> <p>Component Description: Amount:</p> </td> <td data-bbox="1145 103 1428 248"> <p>Mapping complete \$12,500.00</p> </td> </tr> <tr> <td data-bbox="707 248 1145 394"> <p>Component Description: Amount:</p> </td> <td data-bbox="1145 248 1428 394"> <p>Tower Mapping \$1,373.00</p> </td> </tr> <tr> <td data-bbox="707 394 1145 741"> <p>Component Description: Amount:</p> </td> <td data-bbox="1145 394 1428 741"> <p>TIA Tower Inspections and Load Audits \$1,678.00</p> </td> </tr> <tr> <td data-bbox="707 741 1145 965"> <p>Component Description: Amount:</p> </td> <td data-bbox="1145 741 1428 965"> <p>Foundation Mapping \$4,000.00</p> </td> </tr> </table> | <p>Component Description: Amount:</p> | <p>Mapping complete \$12,500.00</p> | <p>Component Description: Amount:</p> | <p>Tower Mapping \$1,373.00</p> | <p>Component Description: Amount:</p> | <p>TIA Tower Inspections and Load Audits \$1,678.00</p> | <p>Component Description: Amount:</p> | <p>Foundation Mapping \$4,000.00</p> |
| <p>Component Description: Amount:</p> | <p>Mapping complete \$12,500.00</p> | | | | | | | | |
| <p>Component Description: Amount:</p> | <p>Tower Mapping \$1,373.00</p> | | | | | | | | |
| <p>Component Description: Amount:</p> | <p>TIA Tower Inspections and Load Audits \$1,678.00</p> | | | | | | | | |
| <p>Component Description: Amount:</p> | <p>Foundation Mapping \$4,000.00</p> | | | | | | | | |
| <p>Load Study</p> | <table> <tr> <td data-bbox="707 965 1145 1155"> <p>Component Description: Amount:</p> </td> <td data-bbox="1145 965 1428 1155"> <p>Geotechnical Studies \$2,310.00</p> </td> </tr> </table> | <p>Component Description: Amount:</p> | <p>Geotechnical Studies \$2,310.00</p> | | | | | | |
| <p>Component Description: Amount:</p> | <p>Geotechnical Studies \$2,310.00</p> | | | | | | | | |

Minor tower reinforcement
/modifications

Component Description:

eComm
administration and
support,
distribution
services at time of
bidding -- Allstate
Tower contract

Amount:

\$637.50

Component Description:

Contracts, Bonds,
Insurance;
Engineering
Drawings
Complete; Material
Accepted by EOR;
Mobilization to
Site; Installation
Complete

Amount:

\$237,500.00

Component Description:

Bid Phase Only -
RFB-198-18 billed
for rebid
distribution
services only
(Allstate Tower
contract)

Amount:

\$46.87

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 | \$43,200.00 | \$41,250.00 | | \$9,193.16 | |
| ASR modification (prepare FCC Form 854) | \$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 | \$1,292.00 | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$5,000.00 | N/A | \$1,568.50 | 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 | \$2,275.00 | N/A |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$7,000.00 | N/A | \$721.88 | N/A |
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | \$1,750.00 | N/A |
| Project management of the transition | \$12,640.00 | \$12,000.00 | KET Staff require outside services to manage the upgrades. | \$1,323.28 | N/A |
| Progress and Transition Reports | <i>\$4,000.00</i> | \$4,000.00 | Engineering consultant costs not otherwise listed | \$262.50 | 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 |
| Sub-total | \$43,200.00 | \$41,250.00 | N/A | \$9,193.16 | N/A |
| Total for all systems | \$1,320,920.00 | \$1,327,906.19 | N/A | \$829,897.00 | N/A |

Components

| Actual Information | Description | | File Name |
|--|--|--|-----------|
| ASR modification (prepare FCC Form 854) | Information not provided. | | |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application | Component Description: | reminder and research re: repack quarterly progress reports | |
| | Amount: | \$35.00 | |
| | Component Description: | email re: progress report deadline; summary and email re: dependencies | |
| | Amount: | \$70.00 | |
| | Component Description: | repack legal expenses | |
| | Amount: | \$578.00 | |
| | Component Description: | Second Installment | |
| Amount: | \$234.50 | | |
| Component Description: | research re: WKMU repack dependencies and linked station set; prepare chart re: same | | |
| Amount: | \$105.00 | | |
| Component Description: | repack legal expenses | | |
| Amount: | \$86.00 | | |

| | |
|---|---|
| | <p>Component Description: First Installment Amount: \$49.50</p> <p>Component Description: public notice; repack and coordination of linked station for testing and sequence of transitioning stations Amount: \$134.00</p> |
| <p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p> | <p>Component Description: Second Installment Amount: \$925.00</p> <p>Component Description: Third Installment Amount: \$445.50</p> <p>Component Description: Fourth Installment Amount: \$99.00</p> <p>Component Description: First Installment Amount: \$99.00</p> |
| <p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p> | <p>Information not provided.</p> |

| | |
|---|--|
| <p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p> | <p>Component Description: Antenna and transmission line bid spec review and bid response review Amount: \$700.00</p> |
| | <p>Component Description: First Installment Amount: \$962.50</p> |
| | <p>Component Description: new antenna and line specs Amount: \$87.50</p> |
| | <p>Component Description: Hitachi and Gates Response review, new antenna and line specs Amount: \$525.00</p> |
| <p>Perform engineering study for new channel assignment and antenna development</p> | <p>Component Description: Review of site documentation and antennas, facility planning Amount: \$459.38</p> |
| | <p>Component Description: Linked station neighbor analysis Amount: \$262.50</p> |
| <p>Prepare and or review reimbursement form</p> | <p>Component Description: Second Installment Amount: \$350.00</p> |
| | <p>Component Description: First Installment Amount: \$1,400.00</p> |

Project management of the transition

Component Description: project management
Amount: \$131.25

Component Description: project management
Amount: \$87.50

Component Description: project management
Amount: \$175.00

Component Description: Project management tasks
Amount: \$43.75

Component Description: project management
Amount: \$43.75

Component Description: project management
Amount: \$306.25

Component Description: travel expenses
Amount: \$10.78

Component Description: project management
Amount: \$87.50

Component Description: project management
Amount: \$175.00

| | |
|--|--|
| | <p>Component Description: project management</p> <p>Amount: \$43.75</p> |
| | <p>Component Description: project management</p> <p>Amount: \$175.00</p> |
| | <p>Component Description: project management</p> <p>Amount: \$43.75</p> |
| Progress and Transition Reports | <p>Component Description: quarterly report</p> <p>Amount: \$87.50</p> |
| | <p>Component Description: quarterly report</p> <p>Amount: \$175.00</p> |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | 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 | \$19,050.00 | \$12,500.00 | | \$3,140.29 | |
| Develop and air announcement of upcoming channel change | <i>\$1,500.00</i> | \$1,500.00 | KET estimate for developing and airing announcement. | N/A | N/A |
| MVPD Notification of Channel Change | <i>\$1,500.00</i> | \$1,500.00 | KET estimate to search for and notify all cable companies. | \$1,118.75 | N/A |
| Equipment Storage | <i>\$500.00</i> | \$500.00 | GBC estimate | N/A | N/A |
| Internal Labor | <i>\$2,000.00</i> | \$2,000.00 | N/A | \$434.04 | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$5,000.00 | GBC estimate based on known quotations | \$1,587.50 | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$2,000.00</i> | \$2,000.00 | KET estimate based on known costs. | N/A | N/A |
| Sub-total | \$19,050.00 | \$12,500.00 | N/A | \$3,140.29 | N/A |
| Total for all systems | \$1,320,920.00 | \$1,327,906.19 | N/A | \$829,897.00 | N/A |

Components

| Actual Information | |
|---|--|
| Description | File Name |
| Develop and air announcement of upcoming channel change | Information not provided. |
| MVPD Notification of Channel Change | <p>Component Description: prepare letters to MVPDs, research and contact MVPDs, prepare report for station</p> <p>Amount: \$1,118.75</p> |
| Equipment Storage | Information not provided. |

| | | |
|--------------------------------------|---|---|
| Internal Labor | Component Description: Amount: | payroll expenses for internal labor \$58.43 |
| | Component Description: Amount: | payroll expenses for internal labor \$71.76 |
| | Component Description: Amount: | payroll expenses for internal labor \$37.54 |
| | Component Description: Amount: | payroll expenses for internal labor \$69.49 |
| | Component Description: Amount: | payroll expenses for internal labor \$66.91 |
| | Component Description: Amount: | payroll expenses for internal labor \$37.85 |
| | Component Description: Amount: | payroll expenses for internal labor \$57.54 |
| | Component Description: Amount: | payroll expenses for internal labor \$34.52 |
| DTV Medical Facility Notification | Component Description: Amount: | medical notification \$1,587.50 |

Disposal Costs (for
equipment and other waste,
net of any salvage value)

Information not provided.

Cost Information **Grand Total**

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|------------------------------|------------------------------------|-----------------------|--------------------|
| Total for all systems | \$1,320,920.00 | \$1,327,906.19 | \$829,897.00 |

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 |
|---------------|---|---|----------|
| | <p>Submission of Estimated Expenses Statements</p> | <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>Shae Hopkins <i>Executive Director</i></p> <p>06/30/2021</p> |

Attachments