



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **34222** | Service: **DTV** | Call **WKSO-TV** | Channel: **17 (UHF)** |
ID:
File **0000026886**
Number:
FRN: **0001790583** | Date **10/21**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|--|--|--------------|----------------------|----------------------|
| KENTUCKY AUTHORITY FOR EDUCATIONAL TV | Shae Hopkins 600 | +1 (859) | SHOPKINS@KET. ORG | Government Entity |
| Doing Business As: KENTUCKY AUTHORITY FOR EDUCATIONAL TV | COOPER DR LEXINGTON, KY 40502 United States | 258- 7000 | | |

Reimbursement Contact Information

Reimbursement Contact Name and Information

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

Preparer Contact Information

Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|---|---|-----------------------|------------------------------|
| 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) | 53.3 kW |
| | | |

| | |
|--------------|-----------------|
| Manufacturer | |
| Model | TLP-24B (14) |
| 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) | 49.1 kW |
| | Manufacturer | |
| | | |

| | |
|-------------------------------|---|
| Model | ATW21H3-ETO-17H |
| Year | 2019 |
| Justification for New Antenna | Primary antenna is not broadband or able to be tuned to a new channel. 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? | |
| | 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? | |
| 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 | 956 feet per run |

Primary **New Transmission Line**
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 | 65 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 **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? | 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 | 1044043 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 37° 10' 03.0" N- |
| | Longitude (NAD83) | 084° 49' 30.0" W- |
| | Overall Structure Height | 998.68 feet |
| | Support Structure Height | 949.14 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 1526.23 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| | | |
|--|------------------|---|
| | Tower Owner | KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA = WKSO TV |
| | 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: | Serious Reinforcements needed |

**Primary
Tower**

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

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

**Outside
Professional**

| Section | Question | Response |
|---|--|--|
| Services Costs 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 | \$294,169.00 | | \$157,934.34 | |
| UHF - Air Cooled Solid State Transmitter 4 - 6 kW | \$236,500.00 | \$225,000.00 | N/A | \$127,516.14 | N/A |
| Service entrance 3 phase/800 amp/208 volt | \$14,400.00 | \$30,419.00 | Estimated costs were based on catalog, and actual costs exceeded estimates. | \$30,418.20 | N/A |
| Switchgear - industrial 800 amp | \$38,200.00 | \$36,300.00 | N/A | N/A | 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 | \$294,169.00 | N/A | \$157,934.34 | N/A |
| Total for all systems | \$1,978,360.00 | \$1,805,202.00 | N/A | \$1,264,883.46 | N/A |

Components

Actual Information

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

| | |
|--|---|
| UHF - Air Cooled Solid State Transmitter 4 - 6 kW | <div> Component Description: transmitter, rf system, electrical system, installation & proof, freight </div> <div> Amount: \$127,153.25 </div> |
| | <div> Component Description: eComm admin and support, distribution services at time of bidding -- GatesAir (RFP-48-19) </div> <div> Amount: \$362.89 </div> |
| Service entrance 3 phase /800 amp/208 volt | <div> Component Description: KET transmitter building electrical upgrade </div> <div> Amount: \$915.00 </div> |
| | <div> Component Description: KET transmitter building electrical upgrade </div> <div> Amount: \$68.50 </div> |
| | <div> Component Description: KET transmitter building electrical upgrade </div> <div> Amount: \$1,050.00 </div> |
| | <div> Component Description: KET transmitter building electrical upgrade </div> <div> Amount: \$50.00 </div> |

| | |
|-------------------------------|---|
| Component Description: | KET transmitter building electrical upgrade |
| Amount: | \$30.00 |

| | |
|-------------------------------|--|
| Component Description: | DECA Projects \$100k-\$500k (.3% of contract price) (includes eComm administration and support, and distribution services at the time of bidding.) Packs Inc contract |
| Amount: | \$500.00 |

| | |
|-------------------------------|---|
| Component Description: | KET transmitter building electrical upgrade |
| Amount: | \$80.00 |

| | |
|-------------------------------|--|
| Component Description: | KET transmitter building electrical upgrades |
| Amount: | \$25,893.20 |

| | |
|-------------------------------|---|
| Component Description: | KET Transmitter Building electrical upgrade |
| Amount: | \$606.50 |

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

| | | |
|---|---|---|
| | Component Description: Amount: | KET transmitter building electrical upgrade \$120.00 |
| | Component Description: Amount: | KET Transmitter building electrical upgrade \$845.00 |
| | Component Description: Amount: | KET transmitter building electrical upgrade \$200.00 |
| Switchgear - industrial 800 amp | Information not provided. | |
| 3" Rigid Conduit and Wiring (Cost per foot) | 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 |
|--|--------------------------------|---------------------|---|---------------------|---|
| Primary Antenna ATW21H3- ETO-17H | \$308,530.00 | \$265,450.00 | | \$177,111.75 | |
| Sweep test of existing antenna | \$6,730.00 | \$18,750.00 | Transition requires two sweeps of transmission equipment. Please see attached Repack Plan Exhibit. One sweep for primary line and one sweep for backup line. | \$18,750.00 | The additional cost for sweep is due to using existing line for the interim services that required sweep testing before using. |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00 | \$235,000.00 | Cost estimate adjusted for reimbursement of horizontal- polarized antenna like the pre-repack primary antenna. | \$158,361.75 | N/A |

| | | | | | |
|--|----------------|----------------|-----|----------------|-----|
| 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 |
| Sub-total | \$308,530.00 | \$265,450.00 | N/A | \$177,111.75 | N/A |
| Total for all systems | \$1,978,360.00 | \$1,805,202.00 | N/A | \$1,264,883.46 | N/A |

Components

| Actual Information | |
|--------------------------------|--|
| Description | File Name |
| Sweep test of existing antenna | |
| | Component Description: sweep test 35% |
| | Amount: \$6,562.50 |
| | |
| | Component Description: system sweep (5%) |
| | Amount: \$937.50 |
| | |
| | Component Description: system sweep (10%) |
| | Amount: \$1,875.00 |
| | |
| | Component Description: sweep test 50% |
| | Amount: \$9,375.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------------------|--|----------------|-------------|-------------------------------|---|----------------|------------|-------------------------------|--|----------------|-------------|-------------------------------|-----------------------|----------------|----------|-------------------------------|---|----------------|----------|-------------------------------|--|----------------|-------------|
| <p>UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized</p> | <table> <tr> <td data-bbox="708 174 1023 210">Component Description:</td><td data-bbox="1155 174 1316 327">antenna (less vpol) and replacement lighting 35%</td></tr> <tr> <td data-bbox="708 338 823 374">Amount:</td><td data-bbox="1155 338 1289 374">\$55,105.05</td></tr> <tr> <td data-bbox="708 477 1023 512">Component Description:</td><td data-bbox="1155 477 1316 629">antenna (less vpol) and replacement lighting (5%)</td></tr> <tr> <td data-bbox="708 640 823 676">Amount:</td><td data-bbox="1155 640 1276 676">\$7,872.15</td></tr> <tr> <td data-bbox="708 779 1023 815">Component Description:</td><td data-bbox="1155 779 1316 931">antenna (less vpol) and replacement lighting (10%)</td></tr> <tr> <td data-bbox="708 943 823 978">Amount:</td><td data-bbox="1155 943 1289 978">\$15,744.30</td></tr> <tr> <td data-bbox="708 1081 1023 1117">Component Description:</td><td data-bbox="1155 1081 1362 1149">Antenna and Line Spec</td></tr> <tr> <td data-bbox="708 1160 823 1196">Amount:</td><td data-bbox="1155 1160 1252 1196">\$612.50</td></tr> <tr> <td data-bbox="708 1299 1023 1335">Component Description:</td><td data-bbox="1155 1299 1362 1451">Antenna gain and TPO evaluations and revision of specifications</td></tr> <tr> <td data-bbox="708 1462 823 1498">Amount:</td><td data-bbox="1155 1462 1252 1498">\$306.25</td></tr> <tr> <td data-bbox="708 1601 1023 1637">Component Description:</td><td data-bbox="1155 1601 1316 1753">antenna (less vpol) and replacement lighting 50%</td></tr> <tr> <td data-bbox="708 1765 823 1800">Amount:</td><td data-bbox="1155 1765 1289 1800">\$78,721.50</td></tr> </table> | Component Description: | antenna (less vpol) and replacement lighting 35% | Amount: | \$55,105.05 | Component Description: | antenna (less vpol) and replacement lighting (5%) | Amount: | \$7,872.15 | Component Description: | antenna (less vpol) and replacement lighting (10%) | Amount: | \$15,744.30 | Component Description: | Antenna and Line Spec | Amount: | \$612.50 | Component Description: | Antenna gain and TPO evaluations and revision of specifications | Amount: | \$306.25 | Component Description: | antenna (less vpol) and replacement lighting 50% | Amount: | \$78,721.50 |
| Component Description: | antenna (less vpol) and replacement lighting 35% | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$55,105.05 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | antenna (less vpol) and replacement lighting (5%) | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$7,872.15 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | antenna (less vpol) and replacement lighting (10%) | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$15,744.30 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | Antenna and Line Spec | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$612.50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | Antenna gain and TPO evaluations and revision of specifications | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$306.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Component Description: | antenna (less vpol) and replacement lighting 50% | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount: | \$78,721.50 | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)</p> | <p>Information not provided.</p> | | | | | | | | | | | | | | | | | | | | | | | | |

Cost
Information

Transmission Line

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|--------------------------------|-------------------|--|----------------|--|
| Primary Transmission Line | \$15,080.00 | \$39,833.00 | | \$39,832.21 | |
| Rigid Transmission Line - copper, 6 1 /8" broadband | \$15,080.00 | \$39,833.00 | see attached cover letter from Greg Best re: transmission line costs 9.10.19 KB | \$39,832.21 | see attached cover letter from Greg Best re: transmission line costs |
| Sub-total | \$15,080.00 | \$39,833.00 | N/A | \$39,832.21 | N/A |
| Total for all systems | \$1,978,360.00 | \$1,805,202.00 | N/A | \$1,264,883.46 | N/A |

Components

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

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

Component Description: transmission line
35%
Amount: \$13,752.46

Component Description: transmission line
(5%)
Amount: \$1,964.64

Component Description: 3 1/8" 50 ohm
custom line section
Amount: \$539.44

Component Description: transmission line
(10%)
Amount: \$3,929.28

Component Description: transmission line
50%
Amount: \$19,646.39

Cost Information

Tower Equipment and Rigging Costs

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|-----------------------|--|---------------------|-------------------------------------|
| Primary Tower TOWER | \$1,300,800.00 | \$1,152,000.00 | | \$874,196.77 | |
| 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. | \$298,512.40 | Greg Best made changes Sept 2019 KB |
| Serious tower reinforcement /modifications | \$1,052,000.00 | \$750,000.00 | KET obtained estimate of tower modification work from Neel-Schaffer. | \$575,684.37 | N/A |
| 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 | \$0.00 | N/A |

| | | | | | |
|-----------------------|----------------|----------------|---|----------------|-----|
| Load Study | \$12,000.00 | \$12,000.00 | Structural engineering tower load study is required to design tower reinforcements and rigging. | \$0.00 | N/A |
| Sub-total | \$1,300,800.00 | \$1,152,000.00 | N/A | \$874,196.77 | N/A |
| Total for all systems | \$1,978,360.00 | \$1,805,202.00 | N/A | \$1,264,883.46 | N/A |

Components

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

| | | |
|--------------------------------|-------------------------------|---|
| Tall Tower (greater than 500') | | |
| | Component Description: | installation |
| | | services 35% |
| | Amount: | \$103,940.28 |
| | | |
| | Component Description: | installation |
| | | services (5%) |
| | Amount: | \$14,848.61 |
| | | |
| | Component Description: | installation |
| | | services (10%) |
| | Amount: | \$29,697.22 |
| | | |
| | Component Description: | DECA Projects |
| | | \$1m - \$30m (.3% of contract price) (includes eComm administration and support, and distribution services at the time of bidding.) |
| | | Electronics Research Inc contract |
| | Amount: | \$1,540.17 |
| | | |
| | Component Description: | installation |
| | | services 50% |
| | Amount: | \$148,486.12 |

| | |
|---|---|
| Serious tower reinforcement /modifications | <div> Component Description: Bid Phase Only - RFB-198-18 billed for rebid distribution services only (Allstate Tower contract) </div> <div> Amount: \$46.87 </div> |
| | <div> Component Description: tower mod </div> <div> Amount: \$575,000.00 </div> |
| | <div> Component Description: tower </div> <div> Amount: \$575,000.00 </div> |
| | <div> Component Description: eComm administration and support, distribution services at time of bidding -- Allstate Tower contract </div> <div> Amount: \$637.50 </div> |
| Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study | <div> Component Description: Foundation Mapping </div> <div> Amount: \$4,000.00 </div> |
| | <div> Component Description: TIA Tower Inspections and Load Audits </div> <div> Amount: \$1,678.00 </div> |
| | <div> Component Description: Tower Mapping </div> <div> Amount: \$1,373.00 </div> |

| | | | | | |
|-------------------------------|--|-------------------------------|----------------------|----------------|------------|
| Load Study | <table><tr><td data-bbox="703 174 1134 224">Component Description:</td><td data-bbox="1134 174 1423 224">Geotechnical Studies</td></tr><tr><td data-bbox="703 250 1134 300">Amount:</td><td data-bbox="1134 250 1423 300">\$2,310.00</td></tr></table> | Component Description: | Geotechnical Studies | Amount: | \$2,310.00 |
| Component Description: | Geotechnical Studies | | | | |
| Amount: | \$2,310.00 | | | | |

Cost Information

Outside Professional Services

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|--------------------|---|--------------------|---------------------------|
| Outside Professional Services | \$43,200.00 | \$41,250.00 | | \$12,668.09 | |
| Progress and Transition Reports | <i>\$4,000.00</i> | \$4,000.00 | Engineering consultant costs not otherwise listed | \$612.50 | 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 | \$1,137.50 | N/A |
| 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 | \$2,111.50 | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$5,000.00 | N/A | \$1,166.00 | 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 | \$2,625.00 | 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 | \$1,487.50 | N/A |
| Project management of the transition | \$12,640.00 | \$12,000.00 | KET Staff require outside services to manage the upgrades. | \$2,806.21 | N/A |
| Sub-total | \$43,200.00 | \$41,250.00 | N/A | \$12,668.09 | N/A |
| Total for all systems | \$1,978,360.00 | \$1,805,202.00 | N/A | \$1,264,883.46 | N/A |

Components

Actual Information
Description

File Name

| | | |
|--|-------------------------------|---|
| Progress and Transition Reports | Component Description: | quarterly progress report |
| | Amount: | \$262.50 |
| | Component Description: | quarterly report |
| | Amount: | \$350.00 |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | Component Description: | FAA Issue Resolution |
| | Amount: | \$700.00 |
| | Component Description: | FAA Followup |
| | Amount: | \$262.50 |
| | Component Description: | FAA Followup |
| | Amount: | \$175.00 |
| ASR modification (prepare FCC Form 854) | Information not provided. | |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application | Component Description: | public notice; repack and coordination of linked station set #44 for testing and sequence of transitioning stations |
| | Amount: | \$134.00 |
| | Component Description: | email reminder re: progress report deadline; summary and email re: dependencies |
| | Amount: | \$70.00 |

| | |
|-------------------------------|---|
| Component Description: | research re: WKSO repack dependencies and linked station set; prepare chart re: same |
| Amount: | \$105.00 |

| | |
|-------------------------------|--|
| Component Description: | research and reminder re: repack quarterly report |
| Amount: | \$35.00 |

| | |
|-------------------------------|-------------------|
| Component Description: | First Installment |
| Amount: | \$49.50 |

| | |
|-------------------------------|--------------------|
| Component Description: | Second Installment |
| Amount: | \$234.50 |

| | |
|-------------------------------|--------------------------|
| Component Description: | repack legal expenses |
| Amount: | \$86.00 |

| | |
|-------------------------------|--------------------------|
| Component Description: | repack legal expenses |
| Amount: | \$1,397.50 |

| | | | | | | | |
|---|--|---|--|---|---------------------------------------|---|--------------------------------------|
| <p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p> | <table> <tr> <td data-bbox="710 174 1013 248"> <p>Component Description: Amount:</p> </td><td data-bbox="1150 174 1374 248"> <p>Second Installment \$925.00</p> </td></tr> <tr> <td data-bbox="710 353 1013 427"> <p>Component Description: Amount:</p> </td><td data-bbox="1150 353 1347 427"> <p>Third Installment \$142.00</p> </td></tr> <tr> <td data-bbox="710 533 1013 607"> <p>Component Description: Amount:</p> </td><td data-bbox="1150 533 1337 607"> <p>First Installment \$99.00</p> </td></tr> </table> | <p>Component Description: Amount:</p> | <p>Second Installment \$925.00</p> | <p>Component Description: Amount:</p> | <p>Third Installment \$142.00</p> | <p>Component Description: Amount:</p> | <p>First Installment \$99.00</p> |
| <p>Component Description: Amount:</p> | <p>Second Installment \$925.00</p> | | | | | | |
| <p>Component Description: Amount:</p> | <p>Third Installment \$142.00</p> | | | | | | |
| <p>Component Description: Amount:</p> | <p>First Installment \$99.00</p> | | | | | | |
| <p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p> | <p>Information not provided.</p> | | | | | | |

| | | |
|--|---|---|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Component Description: Amount: | FCC ASR mod app upload & CP mod upload, new antenna and line specs \$262.50 |
| | Component Description: Amount: | FAA resolution, Hitachi & Gates response review, new antenna and line specs \$700.00 |
| | Component Description: Amount: | TV study analysis, antenna spec, transition draft, CP \$962.50 |
| | Component Description: Amount: | Antenna and transmission line bid spec review and bid response review \$700.00 |
| | | |
| Perform engineering study for new channel assignment and antenna development | Component Description: Amount: | Linked station neighbor analysis \$262.50 |
| | Component Description: Amount: | Review of site documentation and antennas, facility planning \$459.38 |

| | | |
|--|-------------------------------|--|
| Prepare and or review reimbursement form | Component Description: | 399 input and support |
| | Amount: | \$1,400.00 |
| | Component Description: | 399 input and support |
| | Amount: | \$87.50 |
| Project management of the transition | Component Description: | project management |
| | Amount: | \$743.75 |
| | Component Description: | project management |
| | Amount: | \$43.75 |
| | Component Description: | travel expenses - Invoice number highlighted |
| | Amount: | \$10.79 |
| | Component Description: | project management |
| | Amount: | \$262.50 |
| | Component Description: | travel expenses |
| | Amount: | \$279.26 |
| | Component Description: | travel expenses |
| | Amount: | \$134.14 |
| | Component Description: | project management |
| | Amount: | \$218.75 |

| | |
|-------------------------------|-----------------------|
| Component Description: | project management |
| Amount: | \$43.75 |

| | |
|-------------------------------|-----------------------|
| Component Description: | project management |
| Amount: | \$87.50 |

| | |
|-------------------------------|-----------------------|
| Component Description: | project management |
| Amount: | \$87.50 |

| | |
|-------------------------------|-----------------------|
| Component Description: | project management |
| Amount: | \$175.00 |

| | |
|-------------------------------|-----------------|
| Component Description: | travel expenses |
| Amount: | \$194.52 |

| | |
|-------------------------------|-----------------------------|
| Component Description: | Project management tasks |
| Amount: | \$43.75 |

| | |
|-------------------------------|-----------------------|
| Component Description: | project management |
| Amount: | \$175.00 |

| | |
|-------------------------------|-----------------------|
| Component Description: | project management |
| Amount: | \$306.25 |

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 | | \$3,140.30 | |
| 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 |
| Equipment Storage | <i>\$500.00</i> | \$500.00 | GBC estimate | N/A | 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 |
| DTV Medical Facility Notification | \$11,550.00 | \$5,000.00 | GBC estimate based on known quotations | \$1,587.50 | N/A |
| Internal Labor | <i>\$2,000.00</i> | \$2,000.00 | N/A | \$434.05 | 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 |
| Sub-total | \$19,050.00 | \$12,500.00 | N/A | \$3,140.30 | N/A |
| Total for all systems | \$1,978,360.00 | \$1,805,202.00 | N/A | \$1,264,883.46 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Storage | Information not provided. |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. |
| DTV Medical Facility Notification | <div> <div>Component Description:</div> <div>medical notification</div> </div> <div> <div>Amount:</div> <div>\$1,587.50</div> </div> |

Internal Labor

Component Description: payroll expenses
for internal labor
Amount: \$66.91

Component Description: payroll expenses
for internal labor
Amount: \$58.44

Component Description: payroll expenses
for internal labor
Amount: \$37.54

Component Description: payroll expenses
for internal labor
Amount: \$37.84

Component Description: payroll expenses
for internal labor
Amount: \$71.76

Component Description: payroll expenses
for internal labor
Amount: \$69.49

Component Description: payroll expenses
for internal labor
Amount: \$57.55

Component Description: payroll expenses
for internal labor
Amount: \$34.52

| | | |
|--|---|--|
| MVPD Notification of Channel Change | Component Description: Amount: | prepare letters to MVPDs, research and contact MVPDs, prepare report for station \$1,118.75 |
|--|---|--|

**Cost
Information**

Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$1,978,360.00 | \$1,805,202.00 | \$1,264,883.46 |

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>Shae Hopkins <i>Executive Director</i></p> <p>10/21/2020</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.

| | |
|--|---|
| <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>Shae Hopkins <i>Executive Director</i></p> <p>10/21/2020</p> |

Attachments