



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **34205** | Service: **DTV** | Call **WKOH** | Channel: **17 (UHF)** |
ID: | Sign:
File **0000026935**
Number:
FRN: **0001790583** | Date **07/15**
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) | 63.3 kW |
| | | |

| | |
|--------------|-----------------|
| Manufacturer | |
| Model | TLP-16B (30) |
| 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) | 37.3 kW |
| | Manufacturer | |
| | | |

| | |
|-------------------------------|---|
| Model | ATW19H3-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? | |
| | 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 | 3 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 | Flexible Air |
| | Diameter | 3 inches |
| | Other Diameter | N/A |
| | Segment Length | N/A |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 475 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? | Yes |
| | Type | Rigid |
| | Diameter | 3 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | Broadband |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 505 feet per run |
| | Justification for New Transmission Line | Installation of new line makes possible the operation of the current facility while the tower is rigged and the construction of the new facility is underway. See cover letter for transmission line. |

| 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? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | No |
| | 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 | 1044038 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 37° 51' 07.0" N- |
| | Longitude (NAD83) | 087° 19' 44.0" W- |
| | Overall Structure Height | 499.34 feet |
| | Support Structure Height | 449.80 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 375.00 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| | | |
|--|------------------|---|
| | Tower Owner | KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA = WKOH |
| | Date Constructed | 06/13/2002 |

**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 |
|-------------|-----------|---------|
| 71864 | WKPB | FM |

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**

| 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 | Yes |
| | 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 | | \$139,229.09 | |
| UHF - Air Cooled Solid State Transmitter 4 - 6 kW | \$236,500.00 | \$225,000.00 | N/A | \$136,948.26 | 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 |
| Service entrance 3 phase/800 amp/208 volt | \$14,400.00 | \$13,700.00 | N/A | \$2,280.83 | N/A |
| Sub-total | \$291,700.00 | \$277,450.00 | N/A | \$139,229.09 | N/A |
| Total for all systems | \$1,019,930.00 | \$1,227,312.65 | N/A | \$809,179.07 | N/A |

Components

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

| | | |
|---|---|---|
| UHF - Air Cooled Solid State Transmitter 4 - 6 kW | Component Description: Amount: | training, final testing \$1,941.69 |
| | Component Description: Amount: | TAX for transmitter, rf system, electrical system, installation & proof, freight \$7,490.44 |
| | Component Description: Amount: | eComm admin and support, distribution services at time of bidding -- GatesAir (RFP-48-19) \$362.88 |
| | Component Description: Amount: | transmitter, rf system, electrical system, installation & proof, freight \$127,153.25 |
| | | |
| Switchgear - industrial 800 amp | Information not provided. | |
| 3" Rigid Conduit and Wiring (Cost per foot) | Information not provided. | |
| Service entrance 3 phase /800 amp/208 volt | Component Description: Amount: | KET transmitter building electrical upgrade \$25.00 |

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

| | |
|-------------------------------|---|
| Component Description: | KET transmitter building electrical upgrade |
| Amount: | \$266.00 |

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

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

| | |
|-------------------------------|---|
| 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: | \$90.00 |

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

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

| | |
|-------------------------------|---|
| Component Description: | KET Transmitter building electrical upgrade |
| Amount: | \$325.00 |

| | |
|-------------------------------|---|
| Component Description: | KET transmitter building electrical upgrade |
| Amount: | \$68.50 |

| | |
|-------------------------------|---|
| Component Description: | KET transmitter building electrical upgrade |
| Amount: | \$90.00 |

| | |
|-------------------------------|---|
| Component Description: | KET Transmitter building electrical upgrade |
| Amount: | \$363.00 |

| | |
|-------------------------------|---|
| Component Description: | KET transmitter building electrical upgrade |
| Amount: | \$563.33 |

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

Cost Information

Antennas

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|---------------------|--|---------------------|---------------------------|
| Primary Antenna ATW19H3-ETO-17H | \$303,830.00 | \$254,900.00 | | \$152,928.75 | |
| Sweep test of existing antenna | \$6,730.00 | \$12,500.00 | The additional cost for sweep is due to using existing line for the interim services that required sweep testing before using. | \$12,500.00 | N/A |
| 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. | \$140,428.75 | N/A |
| Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed) | \$7,600.00 | \$7,400.00 | N/A | N/A | N/A |
| Sub-total | \$303,830.00 | \$254,900.00 | N/A | \$152,928.75 | N/A |

| | | | | | |
|------------------------------|----------------|----------------|-----|--------------|-----|
| Total for all systems | \$1,019,930.00 | \$1,227,312.65 | N/A | \$809,179.07 | N/A |
|------------------------------|----------------|----------------|-----|--------------|-----|

Components

| Actual Information Description | File Name |
|--------------------------------|--|
| Sweep test of existing antenna | Component Description: sweep (35%) |
| | Amount: \$4,375.00 |
| | Component Description: sweep (50%) |
| | Amount: \$6,250.00 |
| | Component Description: system sweep (5%) |
| | Amount: \$625.00 |
| | Component Description: system sweep (10%) |
| | Amount: \$1,250.00 |

UHF - High Power Top
Mount (200-1000 kW), One
station antenna , elliptically
or circularly polarized

Component Description:

antenna (less
vertical
polarization
component) and
replacement
lighting (35%)

Amount:

\$48,889.75

Component Description:

antenna (less
vertical
polarization
component) and
replacement
lighting (50%)

Amount:

\$69,842.50

Component Description:

antenna (less
vpol) and
replacement
lighting (10%)

Amount:

\$13,968.50

Component Description:

antenna (less
vpol) and
replacement
lighting (5%)

Amount:

\$6,984.25

Component Description:

Antenna and Line
Spec

Amount:

\$437.50

Component Description:

Antenna gain and
TPO evaluation
and revision of
specifications

Amount:

\$306.25

| | |
|--|---------------------------|
| Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed) | 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 |
|--|-----------------------------|----------------|---|--------------|---------------------------|
| Primary Transmission Line | \$60,600.00 | \$85,712.65 | | \$45,072.13 | |
| Rigid Transmission Line - copper, 3 1/8" broadband | \$60,600.00 | \$85,712.65 | See quote and cover letter for 3" rigid transmission line system. | \$45,072.13 | N/A |
| Sub-total | \$60,600.00 | \$85,712.65 | N/A | \$45,072.13 | N/A |
| Total for all systems | \$1,019,930.00 | \$1,227,312.65 | N/A | \$809,179.07 | N/A |

Components

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

Rigid Transmission Line -
copper, 3 1/8" broadband

Component Description: transmission line
(less additional
cost of rigid line
upgrade), air dryer
35%

Amount: \$15,356.28

Component Description: transmission line
(less additional
cost for rigid line
upgrade), air dryer
50%

Amount: \$21,937.54

Component Description: 3 1/8" coax UHF
fine matcher

Amount: \$1,197.05

Component Description: transmission line
(5%)

Amount: \$2,193.75

Component Description: transmission line
(less additional
cost of rigid) and
air dryer (10%)

Amount: \$4,387.51

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 | \$280,500.00 | \$535,500.00 | | \$453,181.89 | |
| Short Tower (less than 500') | \$84,200.00 | \$345,000.00 | KET obtained quotation of realistic scope of tower rigging work from reputable supplier. Please see attached Tower Work exhibit. | \$302,497.52 | N/A |
| Minor tower reinforcement /modifications | \$158,000.00 | \$153,500.00 | N/A | \$143,184.37 | 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 | \$7,500.00 | 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 |

| | | | | | |
|------------------------------|----------------|----------------|-----|--------------|-----|
| Sub-total | \$280,500.00 | \$535,500.00 | N/A | \$453,181.89 | N/A |
| Total for all systems | \$1,019,930.00 | \$1,227,312.65 | N/A | \$809,179.07 | N/A |

Components

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

Short Tower (less than 500')

Component Description: installation
services (35%)
Amount: \$98,877.56

Component Description: installation
services (50%)
Amount: \$141,253.68

Component Description: installation
services (10%)
Amount: \$28,250.74

Component Description: installation
services (5%)
Amount: \$14,125.37

Component Description: misc installation
charge -- due to
site flooding at
WKOH
Amount: \$18,450.00

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

Minor tower reinforcement
/modifications

Component Description: First Installment
Tower Modification
Design
Amount: \$3,375.00

Component Description: Third Installment
Tower Modification
Design
Amount: \$2,475.00

Component Description: eComm
administration and
support,
distribution
services at time of
bidding -- Allstate
Tower contract
Amount: \$637.50

Component Description: tower mod
Amount: \$142,500.00

Component Description: Second Installment
Tower Modification
Design
Amount: \$1,125.00

Component Description: Bid Phase Only -
RFB-198-18 billed
for rebid
distribution
services only
(Allstate Tower
contract)
Amount: \$46.87

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study

Component Description: mapping complete
Amount: \$7,500.00

Component Description: First Installment
Foundation
Mapping
Amount: \$3,500.00

Component Description: First Installment
Tower Inspections
Amount: \$1,156.00

Component Description: TIA Tower
Inspections and
Load Audits
Amount: \$1,156.00

Component Description: Second Installment
Tower Inspections
Amount: \$2,144.00

Component Description: Second Installment
Tower Mapping
Amount: \$2,077.00

Component Description: Tower Mapping
Amount: \$1,023.00

Component Description: First Installment
Tower Mapping
Amount: \$1,023.00

Component Description: Foundation
Mapping
Amount: \$3,500.00

Load Study

Component Description: Second Installment
Geotechnical
Studies
Amount: \$4,690.00

Component Description: Geotechnical
Studies
Amount: \$2,310.00

Component Description: First Installment
Geotechnical
Studies
Amount: \$2,310.00

Component Description: Second Installment
Tower Structural
Analysis
Amount: \$450.00

Component Description: First Installment
Tower Structural
Analysis
Amount: \$2,550.00

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 | \$64,250.00 | \$61,250.00 | | \$15,626.91 | |
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | \$1,575.00 | N/A |
| Progress and Transition Reports | <i>\$4,000.00</i> | \$4,000.00 | Engineering consultant costs not otherwise listed. | \$262.50 | N/A |
| RF Exposure Measurements | \$21,050.00 | \$20,000.00 | KET requires RFR study of this site with co-located broadcast facilities. | \$5,600.00 | 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 |
| 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), Construction Permit Application | \$5,260.00 | \$5,000.00 | N/A | \$1,321.00 | 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 |
| Project management of the transition | \$12,640.00 | \$12,000.00 | KET Staff require outside services to manage the upgrades. | \$1,902.03 | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application | \$2,365.00 | \$2,250.00 | N/A | \$1,969.50 | 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 |
| Sub-total | \$64,250.00 | \$61,250.00 | N/A | \$15,626.91 | N/A |

| | | | | | |
|------------------------------|----------------|----------------|-----|--------------|-----|
| Total for all systems | \$1,019,930.00 | \$1,227,312.65 | N/A | \$809,179.07 | N/A |
|------------------------------|----------------|----------------|-----|--------------|-----|

Components

| Actual Information | |
|--|---|
| Description | File Name |
| Prepare and or review reimbursement form | Component Description: 399 input and support Amount: \$175.00 |
| | Component Description: First Installment Reimbursement Amount: \$1,400.00 |
| | Component Description: 399 input and support Amount: \$1,400.00 |
| | Component Description: Second Installment Reimbursement 399 Amount: \$175.00 |
| Progress and Transition Reports | Component Description: quarterly report Amount: \$87.50 |
| | Component Description: quarterly report Amount: \$175.00 |
| RF Exposure Measurements | Component Description: RF exposure studies Amount: \$5,600.00 |

| | | | | | | | | | | | | | | | | | |
|--|--|-------------------------------|---------------------------------|----------------|---------|-------------------------------|---------------------------------|----------------|----------|-------------------------------|----------------------------------|----------------|---------|-------------------------------|----------------------------------|----------------|----------|
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | Information not provided. | | | | | | | | | | | | | | | | |
| ASR modification (prepare FCC Form 854) | Information not provided. | | | | | | | | | | | | | | | | |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | <table> <tr> <td>Component Description:</td><td>First Installment Attorney Fees</td></tr> <tr> <td>Amount:</td><td>\$99.00</td></tr> <tr> <td>Component Description:</td><td>Third Installment Attorney Fees</td></tr> <tr> <td>Amount:</td><td>\$198.00</td></tr> <tr> <td>Component Description:</td><td>Fourth Installment Attorney Fees</td></tr> <tr> <td>Amount:</td><td>\$99.00</td></tr> <tr> <td>Component Description:</td><td>Second Installment Attorney Fees</td></tr> <tr> <td>Amount:</td><td>\$925.00</td></tr> </table> | Component Description: | First Installment Attorney Fees | Amount: | \$99.00 | Component Description: | Third Installment Attorney Fees | Amount: | \$198.00 | Component Description: | Fourth Installment Attorney Fees | Amount: | \$99.00 | Component Description: | Second Installment Attorney Fees | Amount: | \$925.00 |
| Component Description: | First Installment Attorney Fees | | | | | | | | | | | | | | | | |
| Amount: | \$99.00 | | | | | | | | | | | | | | | | |
| Component Description: | Third Installment Attorney Fees | | | | | | | | | | | | | | | | |
| Amount: | \$198.00 | | | | | | | | | | | | | | | | |
| Component Description: | Fourth Installment Attorney Fees | | | | | | | | | | | | | | | | |
| Amount: | \$99.00 | | | | | | | | | | | | | | | | |
| Component Description: | Second Installment Attorney Fees | | | | | | | | | | | | | | | | |
| Amount: | \$925.00 | | | | | | | | | | | | | | | | |

Prepare engineering
section of FCC Form 2100
(main), Construction
Permit Application

Component Description: New antenna and
line specs
Amount: \$87.50

Component Description: Antenna and
transmission line
bid spec review
and bid response
review
Amount: \$700.00

Component Description: TV study analysis,
antenna spec,
transition draft, CP
Amount: \$962.50

Component Description: First Installment TV
study analysis
Amount: \$962.50

Component Description: Hitachi and Gates
Response review,
new antenna and
line specs
Amount: \$525.00

| | | |
|--|---|--|
| Perform engineering study for new channel assignment and antenna development | Component Description: Amount: | Review of site documentation and antennas, facility planning \$459.38 |
| | Component Description: Amount: | Second Installment Engineering Analysis \$1,137.50 |
| | Component Description: Amount: | First installment project startup \$459.38 |
| | Component Description: Amount: | Linked station neighbor analysis \$262.50 |
| Project management of the transition | Component Description: Amount: | travel expenses -- invoice number highlighted and noted \$10.78 |
| | Component Description: Amount: | project management \$218.75 |
| | Component Description: Amount: | project management \$743.75 |
| | Component Description: Amount: | travel expenses \$10.00 |

| | |
|-------------------------------|-----------------------|
| Component Description: | project management |
| Amount: | \$218.75 |

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

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

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

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

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

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

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

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

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:

research re: WKOH
repack
dependencies and
linked station set;
prepare chart re:
same

Amount: \$105.00

Component Description:

email re: progress
report deadline;
summary and email
re: dependencies

Amount: \$70.00

Component Description:

reminder and
research re: repack
quarterly report

Amount: \$35.00

Component Description:

First Installment
Attorney Fees

Amount: \$49.50

Component Description:

repack legal
expenses

Amount: \$1,341.50

Component Description:

Second Installment
Attorney Fees

Amount: \$234.50

Prepare engineering
section of FCC Form 2100
(main), License to Cover
Application

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 | | \$3,140.30 | |
| Develop and air announcement of upcoming channel change | \$1,500.00 | \$1,500.00 | KET estimate for developing and airing announcement. | N/A | N/A |
| Equipment Storage | \$500.00 | \$500.00 | GBC estimate | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | \$2,000.00 | \$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 | \$2,000.00 | \$2,000.00 | N/A | \$434.05 | N/A |
| MVPD Notification of Channel Change | \$1,500.00 | \$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 | \$1,019,930.00 | \$1,227,312.65 | N/A | \$809,179.07 | 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: \$71.76

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

Component Description: payroll expenses
for internal labor
Amount: \$57.54

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

Component Description: payroll expenses
for internal labor
Amount: \$37.85

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

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

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

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

| | | | |
|-----------------------------|------------------------------|--|-----------------------|
| Cost Information | Grand Total | | |
| | | Predetermined Cost Estimate | Estimated Cost |
| | | | Actual Cost |
| | Total for all systems | \$1,019,930.00 | \$1,227,312.65 |
| | | | \$809,179.07 |

| | | |
|-----------------------------|--|-----------------|
| 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.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Shae
Hopkins**
*Executive
Director*

07/15/2021

| 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>07/15/2021</p> |

Attachments